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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,157	09/17/2003	Yong-Tae Kim	61610070AA	4172
58027 75	590 08/24/2006		EXAMINER	
H.C. PARK & ASSOCIATES, PLC			CHU, HELEN OK	
8500 LEESBURG PIKE SUITE 7500 VIENNA, VA 22182			ART UNIT	PAPER NUMBER
		•	1745	

DATE MAILED: 08/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/664,157	KIM ET AL.				
Office Action Summary	Examiner	Art Unit				
	Helen O. Chu	1745				
The MAILING DATE of this communication apperiod for Reply	ppears on the cover shee	t with the correspondence a	ddress			
 A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). 	DATE OF THIS COMMU 1.136(a). In no event, however, ma od will apply and will expire SIX (6) ute, cause the application to becom	JNICATION. By a reply be timely filed MONTHS from the mailing date of this the ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	·					
2a) ☐ This action is FINAL . 2b) ☐ Th	nis action is non-final.					
•	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	r Ex parte Quayle, 1935	C.D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1-38</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrest signal of the above claim(s) is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) <u>1-38</u> are subject to restriction and/or	rawn from consideration.					
Application Papers						
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a complete any applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the control of the correct of the correc	ccepted or b) objected on about the drawing (s) be held in about the drawer of the dra	eyance. See 37 CFR 1.85(a). ving(s) is objected to. See 37 (
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	Paper	iew Summary (PTO-413) No(s)/Mail Date e of Informal Patent Application (P	TO-152)			

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-25, drawn to a method of fabricating negative electrode, classified in class 429, subclass 215.
 - II. Claims 26-34, drawn to method of fabricating a negative electrode, classified in class 429, subclass 209.
 - III. Claims 35-38, drawn to a lithium battery, classified in class 429, various classes.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process. Specifically, the electrode does not require a slurry mixture as a process step. The electrode can be made by dipping the lithium metal filled with organosulfur into the solvent.
- 3. Inventions III and I are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2)

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that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination as claimed can have a negative electrode without an organosulfur protective layer. The subcombination has separate utility such as the subcombination can be used in a fuel cell..

- 4. Inventions III and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product as claimed can be made by another and materially different process. Specifically, the product does not require a slurry mixture as a process step. The electrode can be made by dipping the lithium metal filled with organosulfur into the solvent.
- 5. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.
- 6. This application contains claims directed to the following patentably distinct species:

Species IIA: claims 26-33 drawn to a method for fabricating a negative electrode by preparation of slurry.

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Species IIB: claim 34 drawn to a method for fabricating a negative electrode by adding an organosulfur compound to a positive electrode

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, there are no generic claims.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

7. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).A telephone call was made to Attorney Hae-Chan Park on August 10, 2006 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the

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requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helen O. Chu whose telephone number is (571) 272-5162. The examiner can normally be reached on Monday-Friday 8am-4:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HOC

PATRICK JOSEPH RYAN SUPERVISORY PATENT EXAMINER